USERS MANUAL

DAB Receiver

DIGITAL AUDIO BROADCASTING

GENERAL SAFETY SUMMARY

CAUTION
RISK OF ELECTRONIC
SHOCK DO NOT OPEN

CAUTION:

DO NOT REMOVE THE COVER FOR REDUCING THE RISK OF ELECTRIC SHOCK.
NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING

To prevent fire or shock hazard , do not expose the unit to rain or moisture.

IMPORTANT SAFETY INSTRUCTIONS

1. All the safety and operating instructions should be read before the product is operated.
2. The safety and operating instructions should be retained for future reference.
3. All warnings on the product and in the operating instructions should be adhered to.
4. All operating and use instructions should be followed.
5. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for the cleaning.
6. Do not use attachments not recommended by the products manufacturer if they may cause hazards.
7. Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool; and the like.
8. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type or power supply to your home, consult your product dealer or local Power Company. For products intended to operate from batteries power, or other sources, refer to the operating instruction.
10. Power supply cord should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, or other sources, refer to the operating instructions.

11. For added protection for this product during a lightning storm, or it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect cable system. This will prevent damage to the product due to lightning and power line surges.
12. Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electronic shock. Never spill liquid of any kind on the product.
13. Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
14. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions.
    - When the power- supply cord or plug is damaged
    - If liquid have been spilled, or objects have fallen into the products
    - If the product does not operate normally by following the operating instructions, adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore this product to its normal operation.
    - If the products has been dropped or damaged in any way.
    - When the product exhibits a distinct change in performance - this indicates a need for service.
15. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
16. Upon completion of any service or repair to this product ask the service technician to perform safety checks to determine that the product is in proper operating condition.
17. The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products including amplifiers that produce heat.

CONTENTS

INTRODUCTION 1

Features 1

PACKAGE CONTENT 2

LaGIO-R102T0 2

CONTROLS 3

The DAB Receiver 3

CONNECTION 5

OPERATION 6

Get Started 6

DAB Mode 7

Advanced Setup Options 9

FM Mode 10

Alarm Setting 12

TROUBLE SHOOTING 15

Nowadays, everything goes to digital. Having the Digital Audio Broadcasting receiver to fulfill your need of entertainment. With the cutting-edge digital technology, the Digital Audio Broadcast receiver performs crystal clear CD quality sound. By using a special spectrum transmission mechanism, Coded Orthogonal Frequency Division Multiplexing (COFDM), the unit receives the transmitting signal without any annoying interference and signal distortion. Besides CD quality sound and distortion-free reception, the DAB receiver is also able to offer broadcasting data, text, pictures even videos.

Features

- Digital Audio Broadcasting with FM/RDS radio
- Crystal clear CD quality sound
- Fully compliant to ETSI EN 300 401
- LaGIO-R102T0 Supports DAB Band III(mode I, II, III, IV) and L Band (Mode I, II, III, IV))
- Clock, Alarm, Sleep, Snooze functions
- Auto search or Manual search
- User-friendly interface
- 10 Station memory preset (5 on DAB and 5 on FM) and quick click buttons
- 16 x 2 Character LCM with backlight

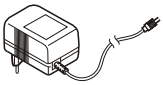
PACKAGE CONTENT

The package includes the following devices.

After unpacking your box, please check that you have all following items.

LaGIO-R102TO

One unit of DAB receiver



Polarity: ⊖—◉—⊕

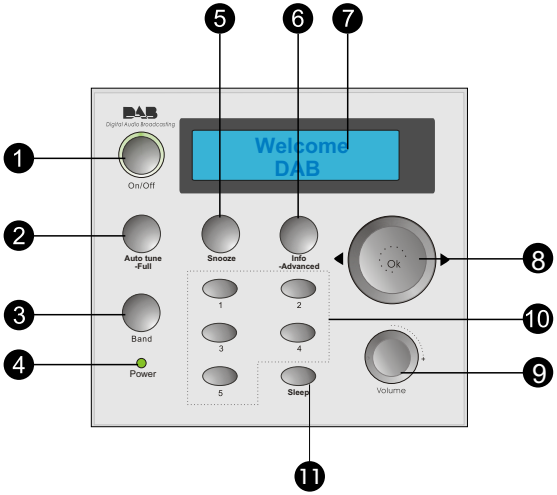
Input: AC 100-240V ~ 50/60Hz

Output: DC 9V / 1.1A

One unit of power adaptor

The DAB Receiver

Front Panel



❶ POWER button

❷ Auto Tune button provides one touch DAB tuning

❸ BAND button for the selection of radio modes between DAB and FM

❹ Power LED

❺ Snooze button silence the alarm for 5 minutes

❻ INFO button steps through the displays of several information texts

❼ 16 x 2 Characters LCM with backlight

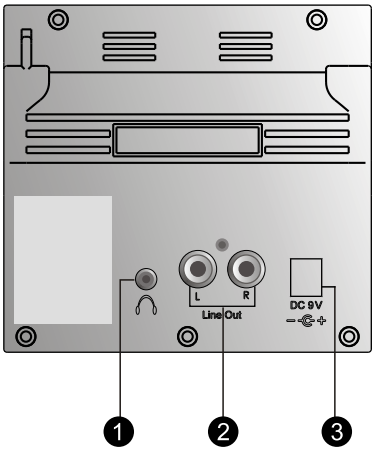
❽ TUNE knob for scrolling through and selecting radio stations

❾ VOLUME knob increases or decreases the volume

❿ PRESET buttons (1-5) for recalling or storing favour stations

⓫ Sleep button enables for setting time for radio to off-stand by

Real Panel

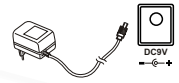


❶ HEADPHONE connector

❷ STEREO LINE OUT connector

❸ Adaptor connector

Connecting to power supply



- Connect the DAB receiver to a standard wall outlet of the appropriate voltage.

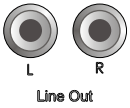
  Note: We offer the acceptable specification of power supply in Output:DC9V/1.1A; Input:AC 100-240V ~ 50/60Hz.

  Caution: *Do not use an unauthorized substitution which may result in damage, fire or other hazards. We do not reserve the responsibility for any improper using which may lead to damage, danger or injury.*

Connecting to headphone

- Connect a set of stereo headphones into the headphones socket.
- The front speakers will not have sound when ear phone is used.

Connecting to an external amplifier



- You can use the Line Out (analogue) to connect to the external amplifier.
- Connect a stereo phono cable (not included) into the Right and Left sockets of the Line Out rightly.

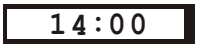
Get Started

Power On and Off

- After setting up all the connections, extend the aerial in the optimise position.
- Plug the Power cable to turn on the unit. Power up at the first time, get real time clock from DAB station. If it fails to get real time clock from DAB station, the clock display will flash.
- When off standby, press On/Off button to switch to On.
- When On, press On/Off button to switch to off standby.
- The Power LED indicates the status of the unit.

On	: GREEN
Off standby	: DARK

On / Off



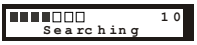
Select the band

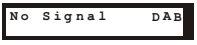
- The BAND button enable you to switch the band between DAB and FM.
- Press Band button on the unit to toggle between DAB and FM.
- The text on the display screen will indicate which mode you selected. DAB mode is selected by default.

Band

Tuning at the fist time

- When the unit is turned on at the first time, a DAB autotune process will be performed automatically.
- If stations are found during the autotune, the first station on the list will be shown on the display and you will hear it from the speakers.
- If the stations are not found during the autotune, the display will show "No Signal".





DAB mode

Providing more instruction on using the DAB receiver, it includes tuning, auto tune, presetting/recall a station, station information, adjusting volume.

Tuning

- The **TUNE** knob allows you to tune the frequency and select different stations. Tune and station selection vary depending upon which mode you select.
- Rotate the **TUNE** knob to see the name of other stored station shown on LCM Display.
- Push and release the Tune knob when you find the station that you want to listen.

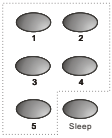
Clockwise: increase frequency
Counterclockwise: reduces frequency

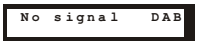
Auto Tune

- The Auto Tune button enable you to re-tune the unit. Press the Auto Tune buttons to do a quick scan of DAB Band III which are available in your nation and store them into a list in the receiver. This process might take a few minutes.
- *STOPPING the auto tune process by pressing enter. Note: You can cancel the auto tune process by pressing any other keys on the front panel.*
- *Press Auto Tune button and hold, a full scan of all DAB channels will be performed.*

Preset/Recall a station

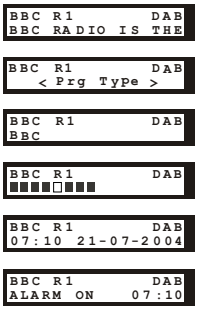
- The Preset 1- 5 buttons allow you to store and recall the station you want.
- To **preset** a selected station, press the relevant number (1-5) for more than 3 seconds. The display will show "Preset stored"
- You preset no service in DAB if nothing is being received. ("NO SIGNAL" is displayed)
- To **recall** a stored station, press the relevant preset number (1-5) . If a stored station is existed in the unit, the unit will tune to the selected station. If there is no station stored with the preset button, the display will show "Preset empty" briefly and tune back to previous station.





Station Information

- Providing detailed information of the station that you are listen to.
- Press the Info button and release it, the information text displayed will step through DLS information, program type, Ensemble name, Signal strength, Time and Date, alarm status.
- Press the Info button and hold for 2 seconds, the information text displayed will step through software version and Audio type / bit rate.
- If the Info button is pressed again, the information text will revert to DLS.



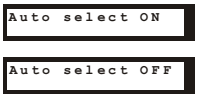
Adjusting Volume

- Rotate the volume knob to increase the volume to a proper level

  Clockwise: increase volume level
  Counterclockwise: reduce volume level

Auto Select

- The TUNE knob allows you to enable the tuning of a selected station. scrolling tune knob to next station, press it, and hold for 2 seconds. the state of the auto select function will be toggled ON/OFF, then a tuning operation to the current selected service will be preformed.

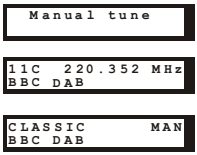


Advanced Setup Options

Providing more instruction on using the DAB receiver, it includes manual tune, display mode and station information. Press tune knob to enter the advanced setup options. Rotate the tune knob to scroll through the compression menu.

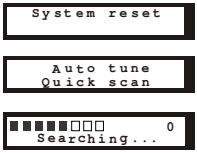
Manual Tune

- Pressing tune knob and hold for 2 seconds allows you to turn on manual tune mode.
- Scroll the tune knob to select avaiable ensemble, press tune knob to enter a service list, scroll tune knob to select a service.
- Press tune knob again and return to Autotune mode.



System Reset

- In DAB and FM mode, press tune knob and hold, then plug the power cable, a system reset will be performed and the receiver will reboot. After reboot, (1) the preset of both DAB and FM will be cleared. (2) the auto select function of DAB will be off. (3) the audio mode of FM will be set to auto.



FM mode

Providing more instructions on using the FM mode, it includes setting tuning method, quick tuning/manual tuning and preset / recall a station. There are two methods of tuning in FM mode.

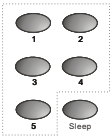
Quick tuning

- To do a quick tunning, press Auto Tune button, the unit search the next available station and stop at the first station it find. Repeat to find the next station.
- Press Auto Tune button, and hold the button for 2 seconds, the unit searches the previous available station and stop at the first station it found. Repeat to find the previous station.

Manual tuning

- In manual tunning method, rotate the tune knob, the frequency will change in steps of 50 kHz. Keep manual tuning until you reach the frequency which you want to listen.

Preset/Recall a station



- The Preset 1- 5 buttons allow you to store and recall the station you want.
- To **preset** a selected station, press the relevant number (1-5) for more than 3 seconds. The display will show "Preset stored")
- To recall a stored station, press the relevant number (1-5) . If the stored is existed in the unit, the unit will tune to the selected station. If there is no station stored with the preset buttons, the display will show " Press empty " briefly and tune back to previous station.

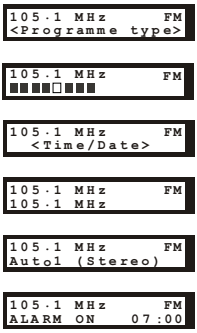
RDS Function

- If broadcasting stations located on your country provide RDS services, the clock and program service name will display on LCM.

Station Information

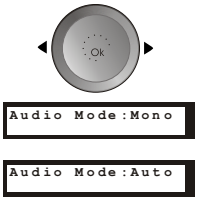
Providing detailed information of the station that you are listen to.

- Press the Info button and release, the information text displayed will step through Programme Type, Signal strength, Time and Date, Frequency and Audio type, Alarm status.
- Press the Info button and hold for 2 seconds, the information text will display software version.
- If the Info button is pressed again, the information text, will revert to Radio Text.
- In Off standby, press the Info button to display the Alarm status.



Audio Mode

- Pressing the tune knob allows you to toggle the audio mode between Auto and Mono.

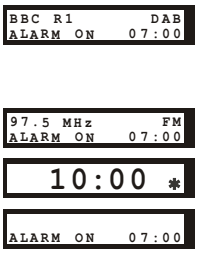


Alarm Setting

Providing more instructions on using the alarm function, it includes setting alarm under radio and displaying alarm status under clock mode.

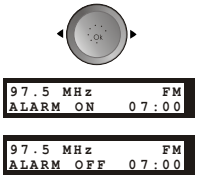
Alarm Mode

- In DAB mode, press the Info button to cyclically display the DLS > Program type > Ensemble name > Signal strength > Time date > alarm status, until alarm status is displayed.
- In FM mode, press the Info button to display the Program type > Signal strength > Time date > Current station > Stereo status auto or mono > alarm status, until alarm status is displayed.
- In Off standby press Info button to display the Alarm status.



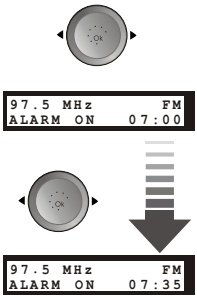
Alarm On and Off

- When the Alarm status is displayed in DAB or FM , press tune knob to toggle between alarm On and alarm Off.



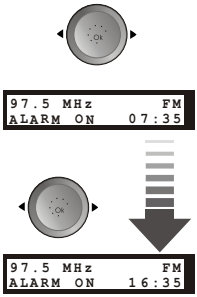
Alarm time MINUTES setting

- When the Alarm status is displayed, press tune knob and hold for 2 seconds to enter the alarm time minutes set mode.
- Rotate the knob clockwise to increase the alarm time or anticlockwise to decrease the alarm time in one minute steps.
- If no adjustment is made within 5 seconds the system will time-out and reverts to the original setting.

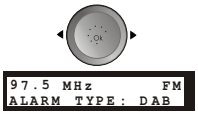


Alarm time HOURS setting

- After the alarm time minutes setting, press tune knob again to enter the Alarm time HOURS set mode.
- Rotate the knob clockwise to increase the alarm time or anticlockwise to decrease the alarm time in one hour steps.
- If no adjustment is made within 5 seconds the system will time-out and reverts to the original setting.



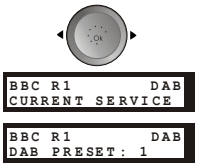
Alarm Type setting



- Press the tune knob again to enter the alarm type mode.
- Rotate the knob clockwise or anticlockwise to select cyclically DAB > FM > Beep alarm type.

DAB alarm type

- Press tune knob to enter the alarm preset station select mode.
- When preset stations have been saved, rotate the knob clockwise or anticlockwise to select cyclically DAB Preset stations CURRENT SERVICE > 1>2>3>4.



FM alarm type

- Press tune knob to enter the alarm preset station select mode.
- When preset stations have been saved, rotate the knob clockwise or anticlockwise to select cyclically FM Preset stations CURRENT SERVICE > 1>2>3>4.

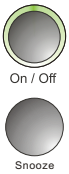
Beep alarm type

- Press tune knob to enter the alarm Beep level select mode.
- Rotate the knob clockwise or anticlockwise to select cyclically the Beep output levels 1>2>3>4.

- Press tune knob to store and display the alarm settings for 5 seconds then return to the DAB, FM or Off standby condition.
- If above adjustments no next action is made within 5 seconds the system will time-out and reverts to the original setting.

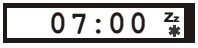
Silence the Alarm

- When the alarm triggers DAB, FM or Beep, press On/Off button to silence the alarm for 24 hours.
- Or press Snooze button to silence the alarm for 5 minutes. The display will show "Snooze".



Alarm time-out

- The alarm will auto shut off for 24 hours after triggered for one hour.



Alarm default

- Unless adjusted the alarm will default at 07:00Hrs in Beep mode level 4.

Alarm tone

- The alarm tone Beeps with increasing rapidity during the first minute after being triggered.

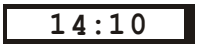
Setting for Sleep

Sleep

- In DAB, FM and off standby mode, press Sleep button to cyclically select the radio to switch to Off standby after 90 minutes, 60 minutes, 30 minutes or 10 minutes.
- Select "Off" to turn off the sleep setting.

Clock

- 24 hour display of hours and minutes.



Power interrupt

- In the event of a power interrupt the DAB station list, Preset Stations, Alarm settings and last use settings will be retained in memory.
- The DAB and FM radio, the display, the display backlight and the alarm output will not operate during the power interrupt.

TROUBLE SHOOTING

Please read the user manual carefully before using the DAB receiver.
If you still have difficulties to use this unit, the following will guide you to solve the most common problems.

No sound

- Check if the adaptor has been well connected.
- Check if all the cables have been well connected.
- Check if the volume is in proper level, not in MUTE status.
- Ensure that you have completed the Autotune procedure to find digital radio stations.

Display shows "No Signal"

- Check if the aerial is connected well and extend it in the optimise position.
- This will happen when the signal strength is insufficient due to a poor aerial positioning.
- Check whether you are located in the area where DAB service is provided.
- Click on the URL http://www.worlddab.org will help you to find which ensembles are available in your area.

Sound is distorted

- There will be situations where some ensembles are strong and others are weak. With a good aerial you may be able to pick up some ensembles with weak signal strength outside their normal coverage range.

Display shows "Preset empty" when a preset button is pressed

- This will happen if a service has not been assigned to a preset button or if that service has been removed from the ensemble, even temporarily.